THE ASTROPHYSICAL JOURNAL LETTERS

CONTENTS OF VOLUME 505, PART 2

1998 SEPTEMBER 20, Number 1

	Page
SUBMILLIMETER OBSERVATIONS OF THE ULTRALUMINOUS BROAD ABSORPTION LINE QUASAR APM 08279+5255 Geraint F. Lewis, Scott C. Chapman, Rodrigo A. Ibata, Michael J. Irwin, & Edward J. Totten	L1
DISCOVERY OF RADIO-LOUD BROAD ABSORPTION LINE QUASARS USING ULTRAVIOLET EXCESS AND DEEP RADIO SELECTION M. S. Brotherton, Wil van Breugel, R. J. Smith, B. J. Boyle, T. Shanks, S. M. Croom, Lance Miller, & Robert H. Becker	L7
FAR-ULTRAVIOLET COLOR GRADIENTS IN EARLY-TYPE GALAXIES R. G. Ohl, R. W. O'Connell, R. C. Bohlin, N. R. Collins, B. Dorman, M. N. Fanelli, S. G. Neff, M. S. Roberts, A. M. Smith, & T. P. Stecher	L11
GAMMA-RAY BURSTS FROM STELLAR COLLISIONS Brad M. S. Hansen & Chigurupati Murali	L15
A MODEL FOR THE X-RAY TRANSITION IN GALACTIC BLACK HOLE CANDIDATE OBJECTS Mitsuru Takeuchi & Shin Mineshige	L19
KILOHERTZ QUASI-PERIODIC OSCILLATION PEAK SEPARATION IS NOT CONSTANT IN THE ATOLL SOURCE 4U 16 M. Méndez, M. van der Klis, R. Wijnands, E. C. Ford, J. van Paradijs, & B. A. Vaughan	08-52 L23
THE X-RAY EXPANSION OF THE SUPERNOVA REMNANT CASSIOPEIA A Barron Koralesky, L. Rudnick, E. V. Gotthelf, & J. W. Keohane	L27
THE NATURE OF THE MID-INFRARED BACKGROUND RADIATION IN THE GALACTIC BULGE FROM THE INFRARITELESCOPE IN SPACE OBSERVATIONS Kin-Wing Chan, T. L. Roellig, T. Onaka, I. Yamamura, & T. Tanabé	ED L31
OPTICAL EMISSION LINES FROM WARM INTERSTELLAR CLOUDS: A DECISIVE TEST OF THE DECAYING NEUTRINO THEORY D. W. Sciama	L35
IRAS 23385+6053: A PROTOTYPE MASSIVE CLASS 0 OBJECT Sergio Molinari, Leonardo Testi, Jan Brand, Riccardo Cesaroni, & Francesco Palla	L39
A NEW TECHNIQUE FOR PERFORMING TWO-DIMENSIONAL SPECTROSCOPY OF OBJECTS OF LARGE DYNAMIC RANGE: THE BINARY SYSTEM HD 167605 A+B S. Arribas, E. Mediavilla, & J. J. Fuensalida	L43
MISSING MIXING? V. M. Canuto	L47
MEASURING THE SUN'S EIGENFREQUENCIES FROM VELOCITY AND INTENSITY HELIOSEISMIC SPECTRA: ASYMMETRICAL LINE PROFILE-FITTING FORMULA R. Nigam & A. G. Kosovichev	L51
RANDOM DAMPING AND FREQUENCY REDUCTION OF THE SOLAR f-MODE T. L. Duvall, Jr., A. G. Kosovichev, & K. Murawski	L55
THE RISE OF KINK-UNSTABLE MAGNETIC FLUX TUBES IN THE SOLAR CONVECTION ZONE Y. Fan, E. G. Zweibel, M. G. Linton, & G. H. Fisher	L59
DETECTION OF WATER ICE ON THE CENTAUR 1997 CU ₂₆ Michael E. Brown & Christopher D. Koresko	L65
INSTRUCTIONS TO AUTHORS OF LETTERS, AND RECENT LETTERS ABSTRACTS AND OTHER BIBLIOGRAPHICAL SERVICES	Inside Back Cover
INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION	Back Cover

CONTENTS

1998 OCTOBER 1, Number 2

	Page
THE COSMIC MICROWAVE BACKGROUND AND OBSERVATIONAL CONVERGENCE IN THE $\Omega_m\text{-}\Omega_\Lambda$ PLANE Charles H. Lineweaver	L69
LARGE-SCALE BIASING AND THE PRIMORDIAL GRAVITATIONAL POTENTIAL Jounghun Lee & Sergei F. Shandarin	L75
THE EFFECT OF HIGHLY STRUCTURED COSMIC MAGNETIC FIELDS ON ULTRA-HIGH-ENERGY COSMIC-RAY PROPAGATION Gustavo A. Medina Tanco	L79
ON QUASAR MASSES AND QUASAR HOST GALAXIES Ari Laor	L83
A PECULIAR EMISSION-LINE FEATURE IN THE X-RAY SPECTRUM OF THE QUASAR PKS 0637–752 T. Yaqoob, I. M. George, T. J. Turner, K. Nandra, A. Ptak, & P. J. Serlemitsos	L87
PECULIAR VELOCITY DIPOLES OF FIELD GALAXIES Riccardo Giovanelli, Martha P. Haynes, Wolfram Freudling, Luiz N. da Costa, John J. Salzer, & Gary Wegner	L91
KECK SPECTROSCOPY AND NICMOS PHOTOMETRY OF A REDSHIFT $z=5.60$ GALAXY Ray J. Weymann, Daniel Stern, Andrew Bunker, Hyron Spinrad, Frederic H. Chaffee, Rodger 1. Thompson, & Lisa J. Storrie-Lombardi	L95
THE NUCLEAR SPECTRUM OF THE RADIO GALAXY NGC 5128 (CENTAURUS A) Chris Simpson & Vikki Meadows	L99
THE NATURE AND EVOLUTION OF ULTRALUMINOUS INFRARED GALAXIES: A MID-INFRARED SPECTROSCOPIC SURVEY D. Lutz, H. W. W. Spoon, D. Rigopoulou, A. F. M. Moorwood, & R. Genzel	L103
FORMATION OF KINEMATIC SUBSYSTEMS IN STELLAR SPIRAL-SPIRAL MERGERS Marc Balcells & Antonio César González	L109
THE CENTRAL ENGINE OF GAMMA-RAY BURSTERS W. Kluźniak & M. Ruderman	L113
GAMMA-RAY BURST 980329 AND ITS X-RAY AFTERGLOW J. J. M. in 'i Zand, L. Amaii, L. A. Antonelli, R. C. Butler, A. J. Castro-Tirado, A. Coletta, E. Costa, M. Feroci, F. Frontera, J. Heise, S. Molendi, L. Nicastro, A. Owens, E. Palazzi, E. Pian, L. Piro, G. Pizzichini, M. J. S. Smith, & M. Tavani	L119
A SEARCH FOR X-RAY COUNTERPARTS OF GAMMA-RAY BURSTS WITH THE ROSAT PSPC Alexey Vikhlinin	L123
THE GLOBULAR CLUSTERS OF DWARF SPHEROIDAL GALAXIES Sidney van den Bergh	L127
ON THE MULTIPLICITY OF η CARINAE Henny J. G. L. M. Lamers, Mario Livio, Nino Panagia, & Nolan R. Walborn	L131
A FIRM UPPER LIMIT TO THE RADIUS OF THE NEUTRON STAR IN SAX J1808.4–3658 L. Burderi & A. R. King	L135
ON PAIR PRODUCTION IN THE CRAB PULSAR Thomas Kunzl, Harald Lesch, Axel Jessner, & Alexis von Hoensbroech	L139
METALS IN COOL DA WHITE DWARFS B. Zuckerman & I. Neill Reid	L143
A PLANETARY COMPANION TO A NEARBY M4 DWARF, GLIESE 876 Geoffrey W. Marcy, R. Paul Butler, Steven S. Vogt, Debra Fischer, & Jack J. Lissauer	L147
A ROTATING DISK AROUND A HIGH-MASS YOUNG STAR Qizhou Zhang, Todd R. Hunter, & T. K. Sridharan	L151
INSTRUCTIONS TO AUTHORS OF LETTERS, AND RECENT LETTERS ABSTRACTS AND OTHER BIBLIOGRAPHICAL SERVICES	Inside Back Cover

Back Cover

INSTRUCTIONS FOR ELECTRONIC MANUSCRIPT SUBMISSION





